

PUBLIC EDUCATION, GREAT BRITAIN  
(SCIENCE AND ART DEPARTMENT FOR THE UNITED KINGDOM).

AN ESTIMATE of the SUM required to be voted for the SCIENCE and ART DEPARTMENT, including the various Establishments connected therewith, for the Year 1858, ending 31st March 1859.

Seventy-three Thousand Seven Hundred and Thirty Pounds.

N.B.—The above sum is in addition to the £.10,000 voted “on account” in the present Session.

For List of Schools of Science and Art in connexion with the Central Establishment, see page 12.

A Summary of this Estimate will be found on page 11.	YEAR 1858.			YEAR 1857.			REMARKS.
	£.	s.	d.	£.	s.	d.	
(A.) For general Management in London:							The accounts of all the Institutions pass through the Office in London, as well those in London, as in Dublin and Edinburgh.
1 Secretary - - - - -	£.1,200						
1 Assistant Secretary - - -	725						
1 Chief Clerk - - - - -	300						
2 First Class Clerks, at 200 l. -	400						
3 Second Class Clerks, at 80 l. -	240						
1 Accountant - - - - -	300						
1 Bookkeeper - - - - -	160						
4 Messengers (paid by the hour)	300						
TOTAL for General Management -	3,625	-	-	2,917	2	-	
(B.) For Schools of ART and SCIENCE in the United Kingdom, SOUTH KENSINGTON MUSEUM, LIBRARY, &c.:							
I. Salaries and Payments in aid to Masters of Schools, to certificated Masters, Lecturers, Teachers, Pupil Teachers, &c.	15,300	-	-	12,500	-	-	I. The increase arises from the transfer of Edinburgh School of Art from the Board of Manufactures to this Department, by Treasury Minute, of 1,400 l., also from the establishment of new Schools now in progress, and the increased Payments on Results. 88 Masters of Schools of Art and Science, 81 Art Pupil Teachers, have received payments, as well as 69 Students in Training in Art and Science, and 2,086 payments have been made on behalf of persons who have passed satisfactory Art Examinations. The Fees paid by Students in Local Schools of Art, for the year ending 30th June 1857, amounted to 8,781 l. 7 s. 2 d. The Fees at South Kensington and in the Metropolitan District Schools, from the 1st March 1857 to 28th February 1858, have been 1,714 l. 6 s. 4 d., making a year's total of 10,495 l. 13 s. 6 d. contributed by Students only, independently of local voluntary Subscriptions, the amount of which is not returned to the Department. The Fees paid in the Science Schools are returned at 1,391 l.
II. Examples, Diagrams of Science and Art, Objects of Art, Books, &c., granted and circulated to Local Schools, and exhibited in the Art Museum; also, Carriage and Package of Articles, and Expenses of the Travelling Museum.	11,800	-	-	9,000	-	-	II. In addition to Loans of Objects and Grants in Aid to Schools of Science and Art above mentioned, 225 Primary Schools, 16 Science and 58 Art Schools, and 43 Mechanics' Institutes, have received aid in procuring Examples. Collections have been sent to Birmingham, Nottingham, Macclesfield, Norwich, Leeds, Sheffield, York, Newcastle-on-Tyne, Carnarvon, Hanley, Stourbridge, Worcester, Liverpool, Glasgow, Paisley, Dundee, Aberdeen, Belfast; and have been visited by 150,199 persons.
III. Purchasing Books for Circulating Library of Art to Local Schools.	1,000	-	-	1,000	-	-	III. The Books, &c., of the Library may be borrowed by all the Schools of Art of the United Kingdom.
IV. Guarantee Fund in aid of establishing Schools.	750	-	-	1,000	-	-	IV. The certainty which now attends the establishment of Self-supporting Schools of Art renders the reduction possible.
V. Prizes of Instruments, &c., awarded at Examinations in Schools of Science and Art, and for Prizes to Pupil Teachers of Public Schools in connexion with Elementary Drawing.	2,000	-	-	2,000	-	-	V. 92 National Medals, 582 Local Medals, and 5,363 Prizes of Drawing Instruments and Books, &c., have been awarded during the year 1857, among 42,426 persons under instruction.
VI. For Inspection: £. 2 General Inspectors, at 750 l. 1,500 3 Inspectors, from 270 l. to 500 l. 1,140	2,640	-	-	2,550	-	-	
VII. For Travelling Expenses of Inspectors, Masters, &c.	2,000	-	-	1,750	-	-	
VIII. South Kensington Museum: £. 1 Deputy Superintendent - 300 1 Keeper of Collections of Art, Architectural Casts, and Library - 420 1 Keeper of Collections of Education - 315 2 Assistant Keepers, at 200 l. - 400 3 Clerks, from 110 l. to 180 l. - 400	1,835	-	-	960	-	-	VIII. The rapid rise in the growth of this Museum makes an increase of Officers for the custody and arrangement indispensable. The number of Visitors to the Museum, from its opening on 22 June 1857 to 23 March 1858, have been 169,758 in the morning, and 193,202 in the evening, giving a total of 362,960 persons.
Schools of Art carried forward - £.	37,325	-	-	30,760	-	-	



Sums required for the Department of Science and Art, for the Year ending 31 March 1859—*continued.*

	YEAR 1858.		YEAR 1857.		REMARKS.
	£.	s. d.	£.	s. d.	
Brought forward - - -	37,325	- -	30,760	- -	
VIII. South Kensington Museum— <i>contd.</i>					
1 Storekeeper - - £. 185					
1 Deputy Storekeeper - - 100	285	- -	170	- -	The great increase in the duties of receiving and transmitting Works, &c., to and from all the Schools throughout the country, renders additional force necessary.
1 Housekeeper - - - 60					
Servants for cleaning, &c. - 190	250	- -	250	- -	
IX. Collections at South Kensington of Educational Apparatus, Products of the Animal Kingdom, Models of Patented Inventions, and British Fine Arts, Supplementary Purchases, and Professional Assistance.	500	- -	500	- -	IX. The proposed purchases are only supplementary, the objects in these Collections having been for the most part presented to the Nation by the Public.
					The numbers of Clergymen, Schoolmasters, &c., paying fees, who have consulted the Educational Collections, have been, for the seven months ending 28 February 1858, 808 persons, from all parts of the country.
X. Expenses of collecting and exhibiting Articles of Manufacture, to show the influence of the Schools on Design.	500	- -	- -	- -	X. For two years it has been announced that, in 1858, an Exhibition would be made of Manufactures which have been either designed or executed by Students of the Schools of Art. The fees for admission will partly repay this Vote.
XI. Labour of 42 Attendants and Artisans during the day and evening time in Museum, Gallery, Schools, Lecture Rooms, Exhibitions, &c.	3,000	- -	2,000	- -	XI. The increase in this vote arises from the great success of the South Kensington Museum.
					The attendants and artisans are paid by the hour, at rates from 4d. to 8d., according to the nature of their duties and responsibilities.
					The hours of working are from 8 A.M. till 9 and 10 P.M. in the Schools and Museum.
					The receipt of Fees from Students and the Public attending on Students' days, Catalogues, &c., have been, for from 22 June 1857 to 23 March 1858, 854l. 7s. 5d., which will be paid into the Exchequer.
XII. Watching and Lighting Fires £.	- -	- -	- -	- -	XII. This increase arises from the very imperfect security of the buildings from fire. The services are for the most part performed by the Royal Engineers, who are instructed in Architectural and Free-hand Drawing and Photography.
and Gas in Museum, Schools, &c. - - - 1,350					
Fire-engine Hose, Repairs to Mains - - - 300					
Additional means of security against Fire - - - 350					The Museum and Schools are lighted from seven to ten at night, and the greatest precautions are necessary against fire. 193,202 persons have attended the Museum in the evenings alone, from 21 June 1857 to 23 March 1858.
Improvements in Warming, Ventilating &c. - - 100					
Lamps and Gas Fittings - 650	2,750	- -	1,100	- -	
XIII. Police - - - - - 380	380	- -	250	- -	XIII. One Inspector, one Detective, and three Policemen are on duty in the evening, and one Policeman during the day.
XIV. Works and Repairs: £.					
a. Glass and other Cases, Shelving, &c. - - - 1,650					
b. Fixtures, Fittings, Materials, and Labour, for General Repairs in Museum, Refreshment Rooms, Schools, and Offices - - - 3,550					
c. Labour for framing and packing Drawings, &c., issue of Prizes - - - 370					
	5,570	- -	6,654	12 -	
XV. For keeping in order the Grounds -	200	- -	200	- -	
XVI. For Advertisements, labelling Objects in Museum, and Printing.	750	- -	750	- -	
VII. For Illustration of Catalogues, &c.	100	- -	150	- -	
XVIII. For Photographic Apparatus, Chemicals, &c.	370	- -	150	- -	XVIII. Through the Department the Sappers of the Royal Engineers are instructed in the art of Photography, which has been applied in reducing the Scales of the Ordnance Maps, and will save upwards of 30,000l. Photographic Reports of Works in charge of the Royal Engineers have been already sent to the War Department from Aldershot, the Crimea, India, Greece, &c.
XIX. Incidents, extra Copying - -	400	- -	400	- -	
TOTAL for Schools of Art and Science, &c. - } £.	52,380	- -	48,334	12 -	



Sums required for the Department of Science and Art, for the Year ending 31 March 1859—*continued*.

	YEAR 1858.			YEAR 1857.			REMARKS.
	£.	s.	d.	£.	s.	d.	
(C.) For SCHOOL of SCIENCE, and the GEOLOGICAL MUSEUM, <i>Jermyn-street</i> :							
I. For Establishment:							
1 Director School of Science	300	-	-				
6 Lecturers, at 200 <i>l.</i> -	1,200	-	-				
2 Lecturers, at 100 <i>l.</i> -	200	-	-				
1 Librarian and Curator	340	-	-				
1 Clerk and Assistant	130	-	-				
1 Chemist	100	-	-				
1 Assistant	100	-	-				
1 Metallurgist	100	-	-				
1 Assistant ditto	100	-	-				
1 Keeper of Mining Records	420	-	-				
2 Assistant Keepers	290	15	-				
5 Attendants, 60 <i>l.</i> to 120 <i>l.</i>	437	10	-				
3 Cleaners, 50 <i>l.</i> to 75 <i>l.</i>	153	2	6				
	3,871	7	6	3,628	2	6	
II. For purchase of Specimens for Museum, and Books for Library	1,000	-	-	1,000	-	-	17,197 persons have visited this Museum during the year ending 31 December 1857.
III. For purchase and construction of Mining Models	170	-	-	170	-	-	
IV. For purchase of Mining Records	100	-	-	100	-	-	
V. For Outfit and Illustration for Lectures	200	-	-	200	-	-	
VI. For Laboratories	100	-	-	100	-	-	
VII. For Police Attendance	75	-	-	75	-	-	
VIII. For Advertisements and Printing	250	-	-	250	-	-	
IX. For Travelling Expenses	100	-	-	100	-	-	
X. For Fuel and Light	-	-	-	200	-	-	Taken in the Estimates of the Office of Works.
XI. For Prizes	55	-	-	55	-	-	
XII. For Incidents	320	-	-	320	-	-	
TOTAL for Jermyn-street School and Museum	6,241	7	6	6,198	2	6	
D.) For GEOLOGICAL SURVEY in <i>Great Britain and Ireland</i> :							
I. For Establishment, Great Britain:							I. 2,605 square miles have been surveyed during the year 1857.
1 Director-general	800	-	-				
1 Local Director	425	-	-				
1 Palæontologist	315	-	-				
1 Naturalist	400	-	-				
3 Senior Geologists, from 200 <i>l.</i> to 350 <i>l.</i>	815	-	-				
8 Assistant ditto, from 7 <i>s.</i> to 12 <i>s.</i> per diem	1,286	12	-				
1 Assistant Naturalist	231	5	-				
1 Assistant Palæontologist	132	5	-				
2 Fossil Collectors, 3 <i>s.</i> to 7 <i>s.</i>	219	-	-				
1 General Assistant	31	16	6				
Travelling Expenses	900	-	-				
Incidents	180	-	-				
	5,735	18	6	5,606	11	-	
II. For Establishment, Ireland:							II. 1,731 square miles have been surveyed during the past year.
1 Local Director	425	-	-				
2 Senior Geologists, at 265 <i>l.</i>	530	-	-				
5 Assistant ditto, 7 <i>s.</i> to 12 <i>s.</i> per diem	921	12	-				
2 Fossil Collectors, 3 <i>s.</i> to 7 <i>s.</i>	193	17	6				
1 Porter	34	4	6				
Travelling Expenses	550	-	-				
Incidents	232	14	6				
	2,887	8	6	2,743	9	-	
TOTAL Geological Survey	8,623	7	-	8,350	-	-	



Sums required for the Department of Science and Art, for the Year ending 31 March 1859—continued.

	YEAR 1858.	YEAR 1857.	REMARKS.
	£. s. d.	£. s. d.	
(E.) The INDUSTRIAL MUSEUM, <i>Scotland</i> , including the NATURAL HISTORY MUSEUM:			
I. For Establishment:	£. s. d.		
1 Director - - - -	300 - -		
1 Chemist - - - -	100 - -		
1 Assistant in Natural History Museum - - - -	100 - -		
1 Housekeeper and Clerk - -	100 - -		
1 Attendant - - - -	46 16 -		
3 Messengers - - - -	117 - -		
	763 16 -	718 16 -	
II. For purchase of Specimens for Museum and Books for Library - - - -	700 - -	700 - -	The Natural History Museum has been visited by 75,754 persons.
III. Ordinary Repairs, Fittings, &c. - -	200 - -	200 - -	
IV. For Fuel and Light, Cleaning, &c. - -	120 - -	120 - -	
V. For Advertisements - - - -	20 - -	20 - -	
VI. For Travelling Expenses - - - -	30 - -	30 - -	
VII. For Incidents - - - -	100 - -	100 - -	
TOTAL Museums, Scotland - - - £.	1,933 16 -	1,888 16 -	
(G.) For the ROYAL DUBLIN SOCIETY, including the BOTANIC GARDENS and ZOOLOGICAL GARDENS in <i>Dublin</i> :			
I. The Establishment:	£. s. d.		
1 Assistant Secretary - - - -	300 - -		
1 Registrar and Housekeeper - - - -	200 - -		
2 Clerks, 75 l. and 40 l. - - - -	115 - -		
1 Director Museum Natural History - -	250 - -		
1 Professor Agriculture - - - -	200 - -		
1 Professor Mineralogy - - - -	150 - -		
1 Librarian - - - -	200 - -		
1 Curator Botanical Gardens - - - -	175 - -		
1 „ Agricultural Museum - - - -	100 - -		
1 Assistant in Laboratory - - - -	50 - -		
5 Attendants - - - -	187 4 -		
4 Porters - - - -	175 10 -		
2 Messengers - - - -	65 - -		
3 Housemaids - - - -	72 16 -		
24 Foremen and Labourers - - - -	468 - -		
	2,708 10 -	2,708 10 -	The total number of persons who have attended this Society during the year ending 31st December 1857, is returned as 123,651.
II. For Purchase of Specimens and Books for Library - - - -	1,000 - -	1,000 - -	
III. Grant in aid of Zoological Gardens - -	500 - -	500 - -	
IV. Guarantee Fund for occasional Exhibitions	150 - -	150 - -	
V. Prizes - - - -	200 - -	200 - -	
VI. Rent, Rates and Taxes - - - -	503 - -	503 - -	
VII. Ordinary Repairs, Furniture, Fittings, &c.	400 - -	400 - -	
VIII. Fuel and Light for general purposes -	365 - -	365 - -	
IX. Soap, Scouring and Cleaning Articles -	40 - -	40 - -	
X. Uniforms for Attendants - - - -	70 - -	70 - -	
XI. Incidents, and various small disbursements	38 10 -	38 10 -	
XII. Allowance to Widow of late Curator -	25 - -	25 - -	
XIII. Annuities to late Masters of Schools of Art	49 19 -	49 19 -	
TOTAL Royal Dublin Society - - - £.	6,049 19 -	6,049 19 -	
THE NORMAL LACE SCHOOL, DUBLIN - £.	- - -	250 - -	This school is now discontinued.



SUMS required for the Department of Science and Art, for the Year ending 31 March 1859—*continued*.

	YEAR 1858.	YEAR 1857.	REMARKS.
	£. s. d.	£. s. d.	
(H.) For the MUSEUM of IRISH INDUSTRY, including PROVINCIAL LECTURERS:			
I. The Establishment:			
1 Director - - - - -	400 - -		
4 Lecturers, at 200 <i>l.</i> - - - - -	800 - -		
1 Chemist - - - - -	200 - -		
1 Assistant ditto - - - - -	100 - -		
1 Curator - - - - -	100 - -		
1 Clerk - - - - -	120 - -		
1 Head Porter - - - - -	52 - -		
6 Attendants and Messengers, at 15 <i>s.</i> - - - - -	234 - -		
2 House Servants - - - - -	55 - -		
Extra Attendants - - - - -	50 - -		
	2,111 - -	2,101 - -	This Museum has been visited by 28,425 persons during the Year ending 31st December 1857.
II. For Provincial Lecturers - - - - -	500 - -	500 - -	
III. For Purchase of Specimens for Museum and Books for Library - - - - -	500 - -	500 - -	
IV. For Outfit and Illustration for Lectures - - - - -	300 - -	300 - -	
V. For Prizes - - - - -	50 - -	50 - -	
VI. For Rent, Rates and Taxes - - - - -	253 6 -	253 6 -	
VII. For Repairs, Furniture, Fittings, &c. - - - - -	550 - -	550 - -	
VIII. For Laboratories - - - - -	100 - -	100 - -	
XIX. For Fuel and Light, Soap, Cleaning, &c. - - - - -	200 - -	200 - -	
X. For Uniforms for Attendants - - - - -	62 10 -	62 10 -	
XI. For Advertisements and Printing - - - - -	100 - -	100 - -	
XII. For Travelling Expenses - - - - -	50 - -	50 - -	
XIII. For Incidents - - - - -	100 - -	100 - -	
TOTAL Museum of Irish Industry and Provincial Lecturers } £.	4,876 16 -	4,866 16 -	

## SUMMARY.

	YEAR 1858	YEAR 1857.
	£. s. d.	£. s. d.
(A.) For General Management in London - - - - -	3,625 - -	2,917 2 -
(B.) For Schools of Art and Science in the United Kingdom, South Kensington Museum, Library, &c. - - - - -	52,380 - -	43,334 12 -
(C.) For School of Science and the Geological Museum, Jermyn-street, London - - - - -	6,241 7 6	6,193 2 6
(D.) For Geological Survey of the United Kingdom - - - - -	8,623 7 -	8,350 - -
(E.) For Industrial Museum for Scotland, including the Natural History Museum, Edinburgh - - - - -	1,933 16 -	1,888 16 -
(G.) For Royal Dublin Society - - - - -	6,049 19 -	6,049 19 -
For Normal Lace School in Dublin - - - - -	- - -	250 - -
(H.) For Museum of Irish Industry and Provincial Lectures in Ireland - - - - -	4,876 16 -	4,866 16 -
TOTAL - - - £.	83,730 5 6	73,855 7 6

South Kensington,  
26 March 1858.(signed) Henry Cole,  
Secretary.



## LIST OF SCHOOLS.

The details of the foregoing Estimate refer to the Schools of Science and Art in the United Kingdom, hereafter named, in connexion with the Central Training School, to the South Kensington Museum and the allied Institutions in London, Dublin, and Edinburgh.

## NAVIGATION and TRADE SCHOOLS, and Number of STUDENTS in connexion.

Aberdeen - - - - -	305	Liverpool - - - - -	753
Birmingham - - - - -	371	London, including Poplar, Blackwall and Shadwell - - - - -	921
Bristol - - - - -	93	Newcastle - - - - -	70
Dublin - - - - -	60	Sunderland - - - - -	381
Edinburgh - - - - -	20	Truro - - - - -	14
Glasgow - - - - -	26	Waterford - - - - -	14
Hull - - - - -	150	Wigan - - - - -	No return.
Leeds - - - - -	113	Yarmouth, Great - - - - -	45
Leith - - - - -	197		

## SCHOOLS of ART, and Number of STUDENTS in connexion.

<i>Andover.</i>	Aberdeen - - - - -	707	Hampshire (District) -	418	Paisley - - - - -	385
<i>Basingstoke</i>	Bath - - - - -	595	Hanley - - - - -	249	Penzance - - - - -	338
	Belfast - - - - -	607	Hereford - - - - -	320	Petersfield - - - - -	456
	Birkenhead - - - - -	460	Lancaster - - - - -	586	Plymouth - - - - -	574
	Birmingham - - - - -	1,536	Leeds - - - - -	1,272	Sheffield - - - - -	393
<i>Bridgnorth</i>	Bolton - - - - -	266	Limerick - - - - -	342	Southampton - - - - -	482
<i>Burnley</i>	Bristol - - - - -	2,424	Liverpool - - - - -	2,307	Stoke - - - - -	293
<i>Cambridge</i>	Burslem - - - - -	164	Macclesfield - - - - -	743	Stourbridge - - - - -	436
	Carlisle - - - - -	139	Manchester - - - - -	1,170	Taunton - - - - -	305
	Carmarthen - - - - -	197	London District Schools:		Tavistock - - - - -	370
	Carnarvon - - - - -	733	Spitalfields - - - - -		Truro - - - - -	354
	Cheltenham - - - - -	1,147	St. Thomas, Char- terhouse - - - - -		Warrington - - - - -	904
	Chester - - - - -	1,405	Finsbury - - - - -		Waterford - - - - -	250
	Clonmel - - - - -	255	Rotherhithe - - - - -		Wenlock and Coalbrook- dale - - - - -	476
	Cork - - - - -	628	St. Martin's - - - - -	6,476	Wolverhampton - - - - -	349
	Coventry - - - - -	564	Lambeth - - - - -		Worcester - - - - -	730
<i>Devonport.</i>	Darlington - - - - -	600	Gower-street - - - - -		Yarmouth, Great - - - - -	380
	Dublin - - - - -	401	Hampstead - - - - -		York - - - - -	586
	Dudley - - - - -	809	Kensington - - - - -		Training School for Art Masters and Mis- tresses at South Ken- sington - - - - -	69
	Dundee - - - - -	372	<i>St. George's in the East</i> Newcastle-under-Lyme -	180		
<i>Edinburgh</i>	Durham - - - - -	377	Newcastle-upon-Tyne -	917		
	Exeter - - - - -	830	Norwich - - - - -	1,196		
	Glasgow - - - - -	1,221	Nottingham - - - - -	1,440		
<i>Guildford.</i>	Greenock - - - - -	170				
<i> Ipswich</i>						

Arrangements are in progress for establishing Schools at Reading, Guildford, Torquay, Chichester, Sherbourne, Burnley, &c.

